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A B S T R A C T
OF THE
P R E M I U M S

OFFERED BY THE
S O C I E T Y,

INSTITUTED AT LONDON FOR THE
ENCOURAGEMENT OF ARTS,
MANUFACTURES, AND
COMMERCE.



LONDON: PRINTED, BY ORDER OF THE
SOCIETY, BY JOHN NICHOLS,
RED LION PASSAGE, FLEET STREET,

M, DCC, XCIV.

To the PUBLICK.

THE CHIEF OBJECTS of the attention of the SOCIETY, in the application of their REWARDS, are all such useful inventions, discoveries, or improvements (though not mentioned in the Book of Premiums), as appear to have a tendency to promote the arts, manufactures, and commerce, of this kingdom; and, in pursuance of this plan, the Society have already been enabled, by the voluntary subscriptions of its members, and by benefactions of the nobility and gentry, to expend for such useful purposes a sum amounting to near *forty thousand pounds*.

Whoever attentively considers the benefits which have arisen to the Publick since the institution of this Society, by the introduction of new manufactures, and the improvements of those formerly established, will readily allow, no money was ever more usefully expended; nor has any nation received more real advantage from any public body whatever than has been derived to this country from the rewards bestowed by this Society; and this observation will be confirmed by inspecting a general account of the effects of the rewards bestowed by the Society, annexed to a work in folio, printed in 1778, intituled, "A Register of the Premiums and Bounties given by the Society, instituted at *London*, for the Encouragement of Arts, Manufactures, and Commerce, from the Original Institution in 1754, to 1776, inclusive;" which work may be seen by any person, applying to the Secretary, or other officers of the Society, at their house in the *Adelphi*.

In order still farther to promote the laudable views of this institution, and to enable the Society to prosecute to greater effect the work so successfully begun, it may not be improper to inform the Publick, by what mode, and on what terms, Members are elected.—Peers of the realm, or Lords of Parliament, are, on their being proposed at any meeting of the Society, immediately balloted for; and the name, with the addition and place of abode, of every other person proposing to become a Member, is to be delivered to the Secretary, who is to read the same, and properly insert the name in a list of candidates, to be hung up in the Society's room until the next meeting, at which such persons shall be balloted for; and, if two-thirds of the Members then voting ballot in his favour, he shall be deemed a Perpetual Member, upon payment of *twenty guineas* at one payment, or a Subscribing Member, upon payment of any sum, not less than *two guineas*, annually.

Every Member is equally entitled to vote, and be concerned in all the transactions of the Society, and its several Committees.

The meetings of the Society are held every *Wednesday*, at six o'clock in the evening, from the fourth *Wednesday* in *October*, to the first *Wednesday* in *June*. And the several Committees, to whose consideration the various objects of the Society's attention are referred, meet on the other evenings in every week during the session.

All candidates are to take notice, that no claim for a premium will be attended to, unless the conditions of the advertisements are fully complied with.

The several candidates and claimants, to whom the Society shall adjudge premiums or bounties, during their next session are to attend at the Society's office in the *Adelphi*, on the last *Tuesday* in *May*, 1795, at twelve o'clock at noon, to receive the same, that day being appointed by the Society for the distribution of their rewards; before which time no premium or bounty will be delivered.

It is required, that the matters for which premiums are offered, be delivered in without names, or any intimation to whom they belong; that each particular thing be marked in what manner each claimant thinks fit, such claimant sending with it a paper sealed up, having on the outside a corresponding mark, and on the inside the claimant's name and address; and the candidates in the Polite Arts are to signify their ages, and whether their Drawings be Originals or Copies.

All the Premiums of this Society are designed for that part of Great Britain called England, the dominion of Wales, and the Town of Berwick upon Tweed, unless expressly mentioned to the contrary.

The Twelfth volume of the Transactions of this Society is now in the press, and will speedily be published, when it may be had at the Society's house in the *Adelphi*; and of the principal booksellers in England and Wales; in which book will be found the particulars of each premium inserted in the following Abstract, and the methods to be pursued by those who intend to become candidates; together with many papers communicated to the Society, in the several branches of Arts, Manufactures, and Commerce, which are the immediate objects of their attention and encouragement; and it is recommended to all Candidates to consult that book, in order that mistakes in making their claims may be avoided.

Adelphi, April 9, 1794.

By Order, SAMUEL MORE, Secretary.



Premiums for Planting and Husbandry.

PREMIUMS FOR PLANTING AND HUSBANDRY.

CLASS.

1. **ACORNS.** For having set ten acres, between October, 1793, and April, 1794; the gold medal.

2. For five acres; the silver medal.

Certificates to be produced on the first Tuesday in November, 1794.

9. **RAISING OAKS.** Not fewer than five thousand, from plants, or acorns, in woods that have been long under timber; the gold medal.

10. For three thousand; the silver medal.

Certificates to be produced on the first Tuesday in January, 1795.

15. **RAISING OAKS.** For ascertaining the comparative merits of the different manners of raising Oaks for timber; the gold medal.

Accounts to be produced on the first Tuesday in November, 1794.

17. **SPANISH CHESNUTS.** For setting six acres between the 1st of October, 1793, and April, 1794, with or without seeds or cuttings of other trees; the gold medal.

18. For four acres; the silver medal.

Certificates to be produced on the first Tuesday in November, 1794.

25. **ENGLISH ELM.** For eight thousand, planted between June, 1793, and June, 1794; the gold medal.

26. For five thousand; the silver medal.

27. For four thousand; the silver medal.

Certificates to be delivered on the first Tuesday in November, 1794.

37. **LARCH.** For planting, from June, 1791, to June, 1792, five thousand, the gold medal.

38. For three thousand; the silver medal.

Certificates to be delivered on the last Tuesday in December, 1794.

49. **SILVER FIR.** For not fewer than two thousand, planted between June, 1790, and June, 1791, in a mixed plantation of forest trees; the gold medal.

50. For one thousand; the silver medal.

Certificates and *accounts* to be delivered on the last Tuesday in December, 1794.

55. **UPLAND OR RED WILLOW.** For not less than three acres, planted before the end of April, 1792, twelve hundred on each acre; the gold medal, or thirty pounds.

Certificates to be produced on the last Tuesday in November, 1794.

57. **OSIERS.** For not less than three acres, planted between the 1st of January and the 1st of May, 1794, not fewer

than twelve thousand on each acre; twenty pounds.

58. For two acres; ten pounds.

Certificates to be produced on the last Tuesday in November, 1794.

61. **ALDER.** For having planted, in the year 1791, at least three thousand; the gold medal.

Certificates to be produced on the last Tuesday in December, 1794.

65. **ASH.** For six acres planted in 1791, intermixed with seeds or cuttings of other plants; the gold medal.

66. For not less than four acres; the silver medal.

Certificates to be produced on the last Tuesday in December, 1794.

75. **TIMBER TREES.** For having enclosed, and planted or sown, ten acres with Forest trees for timber, between October, 1790, and May, 1792; the gold medal.

Certificates to be produced on the first Tuesday in November, 1794.

79. **PLANTING BOGGY OR MORASSY SOILS.** For the best experiments to ascertain the advantages of planting boggy or morassy soils; the gold medal, or thirty guineas.

Certificates to be produced on the first Tuesday in January, 1795.

81. **MULBERRY CUTTINGS, or TREES.** For not fewer than three hundred, planted in 1792; the gold medal, or thirty pounds.

82. For one hundred and fifty; the silver medal, or ten pounds.

Certificates to be produced on the first Tuesday in November, 1794.

83. **SECURING PLANTATIONS OF TIMBER.** For satisfactory accounts of securing Timber-trees from hares, cattle, &c.; the silver medal, or twenty pounds.

Accounts and *certificates* to be produced on the first Tuesday in November, 1794.

The candidates for planting all kinds of trees are to certify, that the respective plantations are properly fenced and secured, and particularly to state the condition the plants were in at the time of signing such certificates.

Any information which the candidates for the foregoing premiums may chuse to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

84. **TREES FOR USE WHEN EXPOSED TO THE WEATHER.** For the best

best account, to determine which of the following trees is of the greatest utility for timber, when exposed to the weather, viz.

Larch, black poplar, ash, Spanish chestnut, willow, alder, Lombardy poplar, beech, or silver fir, the gold medal.

To be produced on the second Tuesday in December, 1794.

86. PREVENTING BLIGHTS. For discovering the best method of preventing blights on fruit-trees; the gold medal, or thirty guineas.

The *accounts* and *certificates* to be delivered on the second Tuesday in November, 1796.

87. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on eight acres, to determine the comparative advantages of cultivating wheat, by sowing broad-cast or drilling; the gold medal, or silver medal and twenty guineas.

The *accounts* to be produced on the first Tuesday in February, 1795.

89. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on eight acres, to determine the comparative advantage of cultivating wheat, by broad-cast or dibbling; the gold medal, or silver medal and thirty guineas.

The *accounts* to be produced on the first Tuesday in February, 1795.

90. BEANS AND WHEAT. For planting or drilling, between September, 1792, and March, 1793, ten acres, with beans, and for sowing the same land with wheat in the year 1793; twenty guineas.

Certificates to be produced on the first Tuesday in November, 1794.

93. DRILL HUSBANDRY. For having cultivated 400 acres in the year 1794; the gold medal.

An *Account of the soil* and *certificates* to be delivered on the third Tuesday in February, 1795.

95. TURNEPS. For experiments made on six acres, to determine the comparative advantages of the drill, or broad-cast method in the cultivation of turneps; the gold medal, or silver medal and ten guineas.

To be delivered on the third Tuesday in April, 1795.

97. VEGETABLE FOOD. For the best account of vegetable food, that will most increase the milk in mares, cows, and ewes, in March and April; the gold medal, or silver medal and ten guineas.

Certificates to be produced on the second Tuesday in November, 1794.

99. COMPARATIVE CULTURE OF TURNEP-ROOTED CABBAGE. For sa-

tisfactory experiments, on the drill and broad-cast culture of turnep-rooted cabbage, made on four acres of land; the silver medal and ten pounds.

Certificates to be produced on the first Tuesday in October, 1794.

100. TURNEP-ROOTED CABBAGE. For raising in the year 1793 not less than ten acres, and for an account of the effects on cattle or sheep fed with it; the gold medal.

101. For not less than five acres; the silver medal and ten guineas.

Certificates to be produced on the last Tuesday in October, 1794.

104. POTATOES FOR FEEDING CATTLE AND SHEEP. For cultivating, in 1793, not less than four acres, for the sole purpose of feeding cattle and sheep; the gold medal, or thirty guineas.

Certificates to be produced on the second Tuesday in November, 1794.

107. CULTIVATING ROOTS AND HERBAGE FOR FEEDING SHEEP AND BLACK CATTLE. For experiments made on two acres of land, between Michaelmas, 1793, and May, 1794, to ascertain which of the following plants can be secured for winter fodder to the greatest advantage, viz.

Turnep-rooted cabbage, carrots, turnep cabbage, parsneps, turneps, potatoes.

The *accounts* and *certificates* to be produced on the first Tuesday in November, 1794; the gold medal.

109. FEEDING HORSES. For an account of not less than four horses kept on green vegetable food in the stall or stable; the silver medal and ten guineas.

The *accounts* and *certificates* to be produced on the second Tuesday in February, 1795.

110. MAKING HAY IN WET WEATHER. For discovering the best method of making hay in wet weather; the gold medal, or thirty guineas.

Accounts to be produced on the third Tuesday in January, 1795.

113. CULTIVATING THE TRUE RHUBARB. For raising, in the year 1794, not less than three hundred plants of the true rhubarb; the gold medal.

114. For two hundred plants; the silver medal.

Certificates to be produced on the second Tuesday in February, 1795.

117. RHUBARB. For rhubarb of British growth, twenty pounds weight; the gold medal.

Certificates, and five pounds weight, to be produced on the first Tuesday in November, 1794.

118. For

118. For ten pounds weight; the silver medal.

121. ASCERTAINING THE COMPONENT PARTS OF ARABLE LAND. For the most satisfactory experiments, to ascertain the due proportion of the several component parts of arable land, by an accurate analysis of it; the gold medal, or fifty guineas.

The *accounts* to be produced on the last Tuesday in November, 1794.

126. DRAINING LAND. For making not less than one thousand yards of hollow drains with brick or stone; the gold medal, or thirty guineas.

Accounts and *certificates* to be produced on the third Tuesday in February, 1795.

128. IMPROVING LAND LYING WASTE. For a method of improving 50 acres of soils lying waste or uncultivated; the gold medal, or silver medal and twenty guineas.

129. For 25 acres; the silver medal and ten guineas.

The *accounts* to be produced on the second Tuesday in December, 1794.

134. MANURES. For the best set of experiments to ascertain the comparative advantage of foot, coal-ashes, wood-ashes, lime, gypsum, or night-soil; the gold medal, or silver medal and twenty guineas.

The *accounts* to be produced on the last Tuesday in February, 1795.

136. IMPROVING WASTE MOORS. For the improvement of not less than one hundred acres of waste moor land; the gold medal.

Certificates to be produced on the first Tuesday in February, 1795.

140. GAINING LAND FROM THE SEA. For an account of the best method of gaining from the sea not less than twenty acres of land; the gold medal.

Certificates to be produced on the first Tuesday in October, 1794.

144. MACHINE TO REAP OR MOW CORN. For a machine to reap or mow grain, by which it may be done cheaper than by any method now practised; ten guineas.

The machine, with *certificates*, to be produced on the second Tuesday in December, 1794.

145. IMPROVED HOE. For the most improved horse or hand hoe, for cleaning the spaces between corn sown in equidistant rows, and earthing-up the plants; the gold medal, or twenty guineas.

To be produced, with *certificates* of its work, on the first Tuesday in December, 1794.

147. DESTROYING THE GRUB OF THE COCKCHAFER. For discovering a

method of destroying the grub of the cockchafer; the gold medal or 30 guineas.

The *accounts* to be delivered on the first Tuesday in January, 1795.

148. DESTROYING THE WIRE-WORM. For discovering a method of destroying the wire-worm; the gold medal, or thirty guineas.

The *accounts* to be delivered on the first Tuesday in January, 1795.

149. DESTROYING THE FLY ON HOPS, AND CATERPILLARS IN ORCHARDS. For discovering an easy method of destroying the fly on hops, and caterpillars in orchards; the gold medal, or thirty pounds.

Certificates to be delivered on the first Tuesday in February, 1795.

150. CURE OF THE ROT IN SHEEP. For discovering an effectual cure, verified by experiments; the gold medal, or thirty pounds.

Accounts of the cause and prevention, with *certificates*, to be produced on the first Tuesday in February, 1795.

151. PREVENTING AND CURING THE ILL EFFECTS OF THE FLY ON SHEEP. For discovering a method of preventing and curing those effects; the silver medal, or twenty guineas.

Certificates and *accounts* to be produced on the first Tuesday in December, 1794.

PREMIUMS FOR DISCOVERIES AND IMPROVEMENTS IN CHEMISTRY, DYING, AND MINERALOGY.

153. BARILLA. For half a ton of merchantable barilla, made from any plant raised in Great Britain; the gold medal, or thirty guineas.

Twenty-eight pounds, with a *certificate*, to be produced on the first Tuesday in January, 1795.

154. PRESERVING SEEDS OF VEGETABLES. For a method of preserving the seeds of plants fit for vegetation; the gold medal, or thirty guineas.

To be communicated on the first Tuesday in December, 1794.

156. SEPARATING THE SUGAR FROM TREACLE. For discovering a cheap method of separating the saccharine substance of treacle in a solid form, not less than one hundred weight; the gold medal, or fifty pounds.

Certificates and *accounts*, with samples, to be produced on the first Tuesday in February, 1795.

158. PRESERVING FRESH WATER SWEET. For the best account, verified by trials, of a method of preserving fresh water during long voyages; the gold medal, or fifty pounds.

Accounts,

6 *Premiums in Chemistry, Dying, Mineralogy, and Polite Arts.*

Accounts, and descriptions of the methods made use of, with thirty gallons of the water, to be produced on the last Tuesday in December, 1794.

160. DESTROYING SMOKE. For an account of a method of destroying the smoke of fires belonging to large works; the gold medal, or thirty pounds.

To be produced on the first Tuesday in January, 1795.

162. CONDENSING SMOKE. For the best method of condensing and collecting the smoke of steam-engines, &c.; the gold medal, or fifty guineas.

Accounts, certificates, and specimens, to be produced on the first Tuesday in December, 1794.

164. CANDLES. For discovering a method of making candles of resin, fit for common use; the gold medal, or thirty guineas.

To be delivered on the first Tuesday in December, 1794.

165. REFINING WHALE OR SEAL OIL. For disclosing a method of purifying oil from glutinous matter; the gold medal, or fifty guineas.

The process to be delivered on the second Tuesday in February, 1795.

167. CLEARING FEATHERS FROM THEIR OIL. For discovering a method of clearing feathers from their oil, superior to any known; forty guineas.

Accounts and certificates to be produced on the first Tuesday in February, 1795.

168. SUBSTITUTE FOR OR PREPARATION OF YEAST. For discovering a substitute for or preparation of yeast, that may be preserved six months; the gold medal, or thirty pounds.

Specimens to be produced on the last Tuesday in November, 1794.

169. SECURING EMPTY CASKS. For discovering a method of securing empty casks from becoming musty or stinking; the gold medal, or 30 pounds.

Accounts and certificates to be produced on the first Tuesday in February, 1795.

170. PRESERVING SALTED PROVISIONS. For discovering the cheapest method of preserving salted provisions from becoming rancid or rusty; the gold medal, or thirty pounds.

Accounts and certificates to be produced on or before the first Tuesday in February, 1795.

171. INCREASING STEAM. For a method of increasing the quantity or the force of steam, in steam-engines, with less fuel than is now employed; the gold medal, or thirty guineas.

To be communicated on the first Tuesday in January, 1795.

173. PREVENTING THE DRY ROT IN TIMBER. For discovering the cause of the dry rot in timber, and disclosing a method of prevention; the gold medal, or thirty guineas.

The *accounts* to be produced on the second Tuesday in December, 1794.

175. FINE BAR IRON. For making ten tons with coak from coak-pigs, in England or Wales, equal to Swedish or Russian iron; the gold medal.

One hundred weight to be produced on the first Tuesday in January, 1795.

177. WHITE LEAD. For discovering a method of preparing white lead, in a manner not prejudicial to the workmen; fifty pounds.

Certificates that a ton has been prepared, and the process, to be produced on the second Tuesday in February, 1795.

178. SUBSTITUTE FOR BASIS OF PAINT. For the best substitute for basis of paint, equally proper as white lead; the gold medal, or thirty pounds.

Fifty pounds weight to be produced on the second Tuesday in November, 1794.

180. REFINING BLOCK TIN. For disclosing a method of purifying block tin, so as to fit it for the purposes of grain tin; the gold medal, or fifty pounds.

The process, and one hundred weight of the tin, to be produced on the first Tuesday in November, 1794.

182. GLAZING EARTHEN-WARE WITHOUT LEAD. For discovering the most easily fusible composition for glazing ordinary earthen-ware without lead; the gold medal, or thirty pounds.

Specimens and certificates to be produced on the first Tuesday in February, 1795.

PREMIUMS FOR PROMOTING THE POLITE ARTS.

183. HONORARY PREMIUMS FOR DRAWINGS. For the best drawing by sons or grandsons of peers or peeresses of Great Britain or Ireland, to be produced on the first Tuesday in March, 1795; the gold medal.

184. For the second in merit; the silver medal.

185, 186. The same premiums will be given to daughters or granddaughters of peers or peeresses of Great Britain or Ireland.

187. HONORARY PREMIUMS FOR DRAWINGS. For the best drawing of any kind, by young gentlemen under the age of twenty-one.

To be produced on the first Tuesday in March, 1795; the gold medal.

188. For the next in merit; the silver medal.

189, 190. The same premiums will be given for drawings by young ladies.

N. B. Per-

N.B. Persons professing any branch of the polite arts, or the sons or daughters of such persons, will not be admitted candidates in these classes.

191. **DRAWING.** For the best drawing in Indian ink of the statue of Narcissus in the Society's room, not less than eighteen inches high; a silver medallion, in conformity to the will of John Stock, of Hampstead, Esq.

To be produced on the third Tuesday in February, 1795.

192. **PORTRAIT.** For a copy, in oil-colours, of a portrait of the late John Stock, of Hampstead, Esq. a silver medallion.

To be produced on the third Tuesday in February, 1795.

193. **DRAWINGS OF OUTLINES.** For an outline after a group or cast, in plaster, of human figures, by persons under the age of sixteen, to be produced on the last Tuesday in February, 1795, the greater silver pallet.

194. For the next in merit, the lesser silver pallet.

195. **DRAWINGS OF MACHINES.** For the best drawing, by persons under the age of twenty-one years, of the spinning and winding machine by Mr. Burt, in the Society's Repository, the greater silver pallet; to be produced on the third Tuesday in February, 1795.

196. **DRAWINGS OF LANDSCAPES.** For the best drawing after Nature, by persons under twenty-one years of age, to be produced on the third Tuesday in February, 1795, the greater silver pallet.

197. For the next in merit, the lesser silver pallet.

198. **HISTORICAL DRAWINGS.** For the best original historical drawing of five or more human figures, to be produced on the third Tuesday in February, 1795, the gold pallet.

199. For the next in merit, the greater silver pallet.

200. **SURVEYS OF COUNTIES.** For an accurate survey of any county in England or Wales; the gold medal.

To be begun after the first of June, 1790, and produced on the last Tuesday in January, 1795.

204. **NATURAL HISTORY.** To the author who shall publish the natural history of any county in England or Wales; the gold medal, or fifty pounds. The work to be produced on or before the last Tuesday in January, 1795.

**PREMIUMS FOR
ENCOURAGING AND IM-
PROVING MANUFACTURES.**

207. **SILK.** For ten pounds of silk,

produced by one person in England, in the year 1794; the gold medal.

One pound, with certificates, to be delivered to the Society on the first Tuesday in January, 1795.

208. For five pounds; the silver medal.

211. **MACHINE FOR CARDING SILK.** For a machine for carding waste silk, to be produced on the first Tuesday in November, 1794; the gold medal, or twenty pounds.

212. **WEAVING FISHING-NETS.** For the best specimen of netting, for fishing-nets, twenty yards long, and six feet deep, woven in a machine, to be produced on the second Tuesday in January, 1795; fifty guineas.

213. **CLOTH FROM HOP-STALKS, OR BINDS.** For not less than thirty yards, twenty-seven inches wide, made in England, the gold medal, or thirty pounds; to be produced on the second Tuesday in December, 1794.

214. **WICKS FOR CANDLES OR LAMPS.** For discovering a method of manufacturing hop-stalks to supply the place of cotton for wicks of candles or lamps; twenty guineas.

Accounts, and five pounds of the wicks, with *certificates*, to be produced on the second Tuesday in January, 1795.

216. **PAPER FROM RAW VEGETABLES.** For ten reams of useful paper from raw vegetable substances; twenty guineas.

One ream and certificates to be produced on the first Tuesday in November, 1794.

217. **MAINTAINING AND EMPLOYING THE POOR.** For producing to the Society the best practical and most economical plan for maintaining and employing the poor in parish-workhouses; the gold medal, or fifty pounds.

The *plans* to be delivered on the first Tuesday in March, 1795.

**PREMIUMS FOR INVENTIONS
IN MECHANICKS.**

218. **TRANSIT INSTRUMENT.** For a cheap and portable instrument, for the purpose of finding the latitudes and longitudes of places, the gold medal, or forty guineas; to be produced on the last Tuesday in January, 1795.

219. **TAKING WHALES BY THE GUN HARPOON.** For the greatest number, not less than three, by one person; ten guineas.

Certificates of the taking the whales to be produced on the last Tuesday in December, 1794.

221. **DRIVING BOLTS INTO SHIPS.** For a model of a machine for driving bolts,

bolts, particularly copper, into ships, superior to any now in use; thirty guineas.

To be produced on the first Tuesday in February, 1795.

222. PORTABLE MACHINE FOR LOADING AND UNLOADING GOODS. For inventing and producing the most simple machine for loading and unloading goods; the gold medal, or forty guineas. To be delivered on the first Tuesday in January, 1795.

223. METAL ROPE OR CHAIN. For a metal rope or chain to work over pulleys, and answer the purpose of a hempen rope, of at least two inches diameter; the gold medal, or fifty pounds.

Certificates of its use, and a sample ten yards long, to be produced on the first Tuesday in November, 1794.

224. HANDMILL. For the best constructed handmill for general purposes; the silver medal, or twenty guineas.

To be produced on the last Tuesday in December, 1794.

225. MACHINE FOR RAISING ORE. To the person who shall invent a machine and produce a model for raising ore, &c. from mines, at a less expence than any in use; the gold medal, or fifty guineas.

To be produced on the second Tuesday in February, 1795.

226. MACHINE FOR RAISING WATER. For a machine for raising water out of deep wells, superior to any in use; the gold medal, or forty guineas.

Certificates and a model to be produced on the first Tuesday in February, 1795.

227. MACHINE FOR CLEARING RIVERS. For the best model of a machine, superior to any now in use, for clearing navigable rivers from weeds, at the least expence; the gold medal, or forty guineas.

To be produced on the first Tuesday in February, 1795.

228. METHOD OF EXTINGUISHING FIRES. For an effectual method of extinguishing fires in buildings; the gold medal, or fifty guineas.

To be produced on the second Tuesday in February, 1795.

229. PREVENTING WATER FREEZING IN PIPES. For discovering a cheap method of preventing water freezing in pipes serving to supply dwellings; the gold medal, or thirty guineas.

Accounts and certificates to be produced on the first Tuesday in March, 1795.

230. IMPROVEMENT OF WHEEL-CARRIAGES. For discovering the principles, and pointing out the construction, on which wheel-carriages may be drawn with least fatigue to the horses; the gold

medal, or fifty pounds.

To be delivered on the second Tuesday in December, 1794.

231. PREVENTING HORSES TURNING ABOUT IN MILLS. For producing a model, shewing an easy method of preventing the necessity of horses turning about in drawing water from deep wells; the gold medal, or forty guineas.

To be produced on the first Tuesday in February, 1795.

PREMIUMS OFFERED FOR THE ADVANTAGE OF THE BRITISH COLONIES.

233. NUTMEGS. For ten pounds weight of nutmegs, the growth of his Majesty's dominions in the West Indies, or Africa, the gold medal, or 100 l.

Certificates to be produced on the first Tuesday in December, 1794.

235. CINNAMON. For twenty pounds weight, the growth of his Majesty's islands in the West Indies, or Africa, imported in 1794, the gold medal, or fifty pounds. Samples to be produced on the first Tuesday in January, 1795.

237. BREAD-FRUIT TREE. For a plantation of not less than one hundred bread-fruit trees in any of the colonies of the West Indies, or Africa, subject to the Crown of Great Britain; the gold medal, or thirty guineas.

Accounts and certificates to be produced on the first Tuesday in January, 1797.

239. KALI FOR BARILLA. For cultivating two acres of land in the West Indies, or Africa, with Spanish Kali for making barilla; the gold medal, or 30 guineas.

240. For one acre, the silver medal, or fifteen guineas.

Certificates to be produced on the second Tuesday in November, 1794.

245. DISCOVERY OF A PASSAGE FROM CANADA TO THE SOUTH SEA. To the person who shall discover and open a passage from Upper Canada to the South Sea; the gold medal.

246. DESTROYING THE INSECT CALLED THE BORER. For discovering an effectual method of destroying the insect called in the West India islands or Africa, the Borer, so destructive to the sugar-cane; the gold medal, or 50 l.

The discovery to be ascertained, and delivered, with *certificates*, to the Society on the first Tuesday in January, 1795.

248. BOTANIC GARDEN. For inclosing and cultivating five acres in the Bahama islands as a botanic garden; the gold medal, or one hundred guineas.

Certificates to be produced on or before the first Tuesday in January, 1796.



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